| POSITION                  | INITIALS | ID NO. | DATE    |
|---------------------------|----------|--------|---------|
| FEE DETERMINATION         |          |        |         |
| O.I.P.E. CLASSIFIER       |          | 10     | 2-1=01  |
| FORMALITY REVIEW          | LCK      | 1034   | 4-02-01 |
| RESPONSE FORMALITY REVIEW | H        | 712    | 07-1001 |
|                           | •        |        |         |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   |    | Non-elected  |
|---|----------------------------|-----|----|--------------|
| = | Allowed                    | . 1 | ., | Interference |
| _ | (Through numeral) Canceled | . A |    | Appeal       |
| ÷ | Restricted                 | _ 0 |    | Objected     |

|            |                  |          |          |              |          | ÷            |  |              |              | ••••           | ••••     |     | F        | Rest     | ricte               | ed | •                                      |                                      |              | 0        |          |          |          |              |   |          | . Ob       | jec      |
|------------|------------------|----------|----------|--------------|----------|--------------|--|--------------|--------------|----------------|----------|-----|----------|----------|---------------------|----|--|--------------------------------------|--------------|----------|----------|----------|----------|--------------|---|----------|------------|----------|
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| -          | 4                | 7        | -        |              |          | -            | $\vdash$   | $\vdash$     |              | _              |          | Ī   |          | 54       | -                   |    |  |                                      |              |          |          |          |          |              |   |          | 104        | _        |
|            | 5                | ٦        |          |              |          | Γ            |  |              |              |                |          |     |          | 55       |                     |    |  |                                      |              |          |          |          |          |              |   |          | 105        |          |
| <b>!</b>   | 6                |          |          |              |          | Г            |  |              |              |                |          |     |          | 56       |                     |    |  |                                      |              |          |          |          |          |              |   |          | 106        |          |
|            | 7                |          |          |              |          |              |  |              |              |                |          |     | •        | 57       |                     |    |  |                                      | _            |          |          |          |          |              |   | <u> </u> | 107        |          |
| بالأ       | 8                |          |          |              |          |              |  | L            |              |                |          |     |          | 58       |                     |    |  |                                      | $\perp$      | _        | _        |          |          |              |   |          | 108        |          |
| 1          | 9                | Ц        |          |              |          | L            | <u> </u>   | <u> </u>     | L            |                |          | , , |          | 59       |                     | _  |  |                                      |              | _        | _        | _        |          | _            |   |          | 109        |          |
| 1          | 10               | 1        | <u> </u> | <u></u>      |          | _            | <u> </u>   | <u> </u>     |              | L              |          |     | _        | 60       | $\Box$              |    |  |                                      | _            | _        | _        |          |          |              |   | _        | 110        | _        |
| L          | 11               | !        | <u></u>  |              | _        | L            | _  | L            | ļ            |                |          |     |          | 61       | $\perp$             |    |  |                                      |              |          |          |          |          |              | - | <u> </u> | 111        |          |
| ļ.         | 12               | _        |          |              | _        | ļ.           | 1  | <del> </del> | _            |                | Ш        |     | <u>_</u> | 62       | $\dashv$            |    | Н                                      |                                      | _            |          |          | •        | Щ        | H            |   | <u> </u> | 112        | _        |
|            | 13               | Z        | ŀ        |              |          |              | -  | Ļ.           | <u> </u>     |                | $\vdash$ |     | _        | 63       | $\vdash \downarrow$ |    | H                                      | Н                                    |              | _        |          |          | $\vdash$ | -            |   | $\vdash$ | 113        |          |
| L          | 13               | 1        |          | -            | <u> </u> | <del> </del> | +  | <u> </u>     | ├            | <u> </u>       | $\vdash$ |     | <u> </u> | 64       | Н                   |    | _                                      | $\vdash$                             | Ц            | _        | _        |          | Н        | -            |   |          | 114        | H        |
| 1          | 15               | H        | $\vdash$ |              | <u> </u> | ⊬            | -  |              |              |                | $\vdash$ |     | _        | 65<br>66 |                     |    | H                                      | $\vdash$                             |              |          |          |          | Н        | $\vdash$     |   | $\vdash$ | 115<br>116 | -        |
| <u> </u>   | 16<br>17         | 4        | ⊢        |              | -        | ╀            | +  | ┼            | <del> </del> | -              | H        |     | _        | 67       |                     | _  |  | H                                    |              |          |          |          |          | $\vdash$     |   | ⊢        | 117        | -        |
| -          | -                | H        | ├        | -            | ⊢        | ╀            | +  | ├            | <del> </del> | ⊢              |          |     | <u> </u> | 68       |                     | -  |  | -                                    |              |          |          | -        | $\vdash$ | Н            |   | ├        | 118        | -        |
| $\vdash$   | 18               | 4        | -        |              | -        | ╀            | +  | 1            | -            | -              |          |     |          | 69       | $\vdash$            | _  | $\vdash$                               |                                      | -            |          |          | _        | $\vdash$ | -            | İ | $\vdash$ | 119        | $\vdash$ |
| -          | 19               | ۱,       | ⊢        | ⊢            | -        | ┾            | ╁  | +            | ╀            | -              |          |     |          | 70       | H                   | -  |  | -                                    |              |          |          |          | $\vdash$ |              | ļ | -        | 120        | H        |
| ļ <u>-</u> |                  | V        | ┡        | <u> </u>     | Ļ.       | 1            | ╁  | ╄            | ⊢            | -              |          |     | -        | -        | H                   | _  | <u> </u>                               |                                      | _            | $\vdash$ |          |          | $\vdash$ | ├-           |   | -        | 1          | -        |
| $\vdash$   | 21               | <u> </u> | ļ        |              | _        | ⊢            | +  | ┼-           | ļ            | -              | H        |     | _        | 71       |                     |    | ⊢                                      |                                      |              |          |          | -        |          | $\vdash$     | ł | ⊢        | 121<br>122 |          |
| -          | 22               | ⊬        | -        | ┝            | ┝        | +            | ┼-   | ╀            | $\vdash$     | H              | ┝        |     |          | 72<br>73 | H                   |    | ┢                                      | -                                    |              | H        |          |          |          | -            | 1 | -        | 123        | $\vdash$ |
| -          | 24               | -        | ⊢        | -            | ├        | ╁            | +  | +-           | 1            | ├              | -        |     | -        | 74       | Н                   |    |  | ├                                    | $\vdash$     | $\vdash$ |          | $\vdash$ | -        | -            | 1 | -        | 124        | H        |
| -          | ╄                | -        | ┼        | ├            | ⊢        | $\vdash$     | +  | -            | ╁            | -              | ┢╾       |     | $\vdash$ | 75       | -                   | -  | ⊢                                      | -                                    | $\vdash$     | _        | _        | -        |          | -            | 1 | $\vdash$ | 125        | $\vdash$ |
| -          | 25<br>26         | ├        | ┼        | <del> </del> | ├-       | ╁            | ╁  | ╁            | ┼            | -              | $\vdash$ | ł   | H        | 76       | -                   | -  | ┢                                      | <del> </del>                         | <del> </del> |          | $\vdash$ | -        | -        | -            |   | $\vdash$ | 126        | $\vdash$ |
| -          | 27               | ┝        | 1        | ١.           | ├        | ╁╴           | +:   | ╁╌           | -            | $\vdash$       |          | ł   | -        | 77       | Н                   |    |  | ┢                                    |              | $\vdash$ |          |          | $\vdash$ |              | 1 | -        | 127        | ⊢        |
| $\vdash$   | 28               | $\vdash$ | ╁        | ╁            | -        | +-           | +-   | ╁            | ╁            | ╁              | -        | 1   | -        | 78       | Н                   |    | <u> </u>                               | ┼-                                   | -            | $\vdash$ |          |          | $\vdash$ | H            | ĺ |          | 128        | $\vdash$ |
| -          | 29               | ┢        | ╁╌       | ╁╌           | -        | +            | +-   | +            | $\vdash$     | -              | ┼        | 1   | -        | 79       |                     |    | -                                      | -                                    |              | $\vdash$ |          | $\vdash$ | ╁        | <del> </del> | ł | $\vdash$ | 129        | H        |
| -          | 30               | -        | $\vdash$ |              | +-       | +-           | +  | +            | +            | $\vdash$       | ╁╌       | 1   | $\vdash$ | 80       | $\vdash$            |    | -                                      | ┼─                                   |              |          | $\vdash$ | H        | -        | t            | 1 |          | 130        | Ė        |
| -          | 31               | 4        | ┼~~      | 1            | $\vdash$ | H            | +  | +            | +            | -              | $t^-$    | 1   |          | 81       | -                   | _  | ┼─                                     | ╁╌                                   |              |          | $\vdash$ | -        | $\vdash$ | t            | 1 | $\vdash$ | 131        | _        |
| -          | 32               |          | -        | ╁            | H        | ╁            | +  | +            | +            | <del>  -</del> | $\vdash$ | 1   | H        | 82       | 1                   |    | ╁                                      | ╁                                    | $\vdash$     | $\vdash$ | Η.       | -        |          |              | 1 |          | 132        |          |
| -          | 33               |          | +        | ✝            | t        | $^{+}$       | ╁╴   | 1            | +            | †              | $\vdash$ | 1   | $\vdash$ | 83       |                     | _  | -                                      | 1                                    |              |          | _        | -        | <u> </u> |              | 1 |          | 133        | -        |
| -          | 34               |          | +        | +-           | +        | T            | $^{\dagger}$                                     | $\top$       | $\top$       | +              | 1-       | 1   | <u> </u> | 84       |                     |    |  | T                                    | -            | ✝        |          |          | T        | Τ            | 1 | $\vdash$ | 134        |          |
| 1          | 35               |          | ✝        | c            |          | T            | T  | †            | 1            | 1              |          | 1   | $\vdash$ | 85       | T                   |    | T                                      | 1                                    | 1            | Г        |          |          | T        | Γ            | 1 | Г        | 135        | Γ        |
| 1          | <b>\$6</b>       |          | T        | Ť            | T        | T            | T  | 1            | 1            |                |          | 1   |          | 86       |                     | _  |  |                                      | Г            |          |          |          |          |              | 1 | Г        | 136        |          |
| Lį         | 37               |          |          | T            | T        | T            | T  |              | T            | T              |          | 1   |          | 87       |                     |    |  |                                      |              |          |          |          |          |              |   |          | 137        |          |
|            | 38               | T        | T        | T            | Τ        | T            | T  |              |              |                |          | 1   |          | 88       |                     |    |  |                                      |              |          |          |          |          |              | ] |          | 138        |          |
|            | 39               |          |          |              |          |              |  |              |              |                |          |     |          | 89       |                     |    |  |                                      |              |          |          |          |          |              | ] |          | 139        | Ĺ        |
| Г          | 40               | ī        | Τ        | Г            | Г        | Τ            | T  |              | Г            | Γ              |          | ]   | Γ        | 90       |                     |    |  |                                      |              |          |          |          |          |              |   |          | 140        |          |
|            | 41               | T        | T        | 1            |          | Т            | $\top$   | Τ            | Τ            | Τ              | 1        | 1   | Г        | 91       |                     |    | Г                                      |                                      |              |          |          |          |          |              | 1 | Γ        | 141        | -        |
| -          | 43               | 1        |          |              | T        | T            | 1  | 1            | 1            |                | 1        | 1   | Г        | 92       | Т                   |    | T                                      |                                      |              |          |          |          |          |              | 1 | Г        | 142        |          |
|            | 43               | 1        | T        | T            | T        | 1            | 1  | 1            | 1            |                | T        | 1   |          | 93       |                     |    | Γ                                      | Ι                                    |              |          |          |          |          |              | ] |          | 143        |          |
|            | 44               | 1        | T        | 1            | T        | T            | Τ  | T            |              | Τ              |          | 1   | Г        | 94       |                     |    | Г                                      |                                      |              | Γ        |          |          | Γ        |              | ] |          | 144        |          |
|            | 45               | 1        | $\top$   | 1            |          | 1            | $\top$   | $\top$       |              | Τ              | $\Box$   | ]   |          | 95       |                     |    | L                                      |                                      |              |          |          |          |          |              | ] |          | 145        |          |
|            | 46               | 5        |          |              |          |              | Τ  | T            |              |                |          |     |          | 96       |                     |    | Γ                                      |                                      |              |          |          |          |          |              |   |          | 146        | _        |
|            | 47               |          |          |              |          | Ī            |  |              | Τ            |                | Γ        |     |          | 97       | _                   |    |  | $\Gamma$                             |              |          |          |          | Ĺ        |              | 1 | L        | 147        | -        |
|            | 48               |          | Ι        | L            |          | Ι            | I  | Ι            | $\perp$      | Γ              |          | ]   | $\Box$   | 98       |                     |    |  |                                      |              | $\Box$   |          | L        |          | L            | 1 | L        | 148        |          |
|            | 49               |          | Γ        | Γ            |          | I            | I  | I            | Π            |                |          |     |          | 99       |                     |    | Ĺ                                      |                                      | Ĺ            | $\perp$  | $\Box$   | L        | Ļ        |              | 1 | L        | 149        | 1        |
|            | 50               |          |          |              |          |              | $\perp$  |              |              |                | $\Box$   | ]   |          | 100      |                     | Ĺ  | _ـــــــــــــــــــــــــــــــــــــ | لـــــــــــــــــــــــــــــــــــ |              | <u> </u> | <u>L</u> | L        |          | 上            | ] | L.       | 150        | L        |

| Cla      | im       |             |  |          |              | Dat   | е          |           |          |  | $\neg$       |
|----------|----------|-------------|--|----------|--------------|-------|------------|-----------|----------|--|--------------|
| Final    | Original |             |  |          |              |       |            |           |          |  |              |
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|          | 102      |             |  |          |              |       |            |           |          |  |              |
|          | 103      |             |  |          |              |       |            |           |          |  |              |
|          | 104      |             |  |          |              |       |            |           |          | _  |              |
|          | 105      |             |  |          |              | L     |            |           |          |  |              |
|          | 106      | _           |  |          | <u> </u>     | _     |            | L         |          | _  |              |
|          | 107      | _           |  | _        | L            |       | <u> </u>   | _         |          |  |              |
|          | 108      |             | <u> </u>                               | _        | _            | _     | <u> </u>   | _         | _        | ļ.,  |              |
| _        | 109      | -           |  |          | <u> </u>     | -     | -          | ┣         | _        | L  | <u> </u>     |
| _        | 110      | _           |  |          | ⊢            | ⊢     |            |           | -        | H  |              |
| _        | 112      | -           |  |          | $\vdash$     |       |            | -         | -        | -  | -            |
| _        | 113      | -           | -                                      | -        | ╁            |       |            |           |          | <del>                                     </del> | -            |
|          | 114      | -           |  |          | <del> </del> | ├-    | -          | ├         | -        | <del> </del>                                     | <del> </del> |
|          | 115      |             |  |          | H            | ┢     | H          |           | -        | -  | 一            |
|          | 116      | -           | <b>-</b>                               | _        | ┢            | $t^-$ | İ          | ┪         |          |  | t            |
|          | 117      | -           | $\vdash$                               | Т        |              | T     | 1          | T         |          | Г  | $\vdash$     |
| _        | 118      |             |  |          |              |       |            | Г         | _        | Г  |              |
|          | 119      |             | Γ                                      |          | Γ            |       |            | Г         |          |  |              |
|          | 120      |             |  |          | Г            | Γ     | Γ          |           |          |  | Γ            |
|          | 121      |             |  |          |              | 1     |            | T         | Г        |  |              |
|          | 122      |             |  |          |              |       |            |           |          |  |              |
|          | 123      |             |  |          |              | _     |            |           |          |  | L            |
|          | 124      |             | L                                      |          |              |       | L          | <u> </u>  | L        |  | <u> </u>     |
| L        | 125      |             | <u> </u>                               | _        | ↓_           | _     | ļ          | ┖         | L-       | 1_   | ┞-           |
|          | 126      |             | ╙                                      |          | 1            | ╄     | 1          | -         | <u> </u> | Ļ  | ┼            |
| L        | 127      |             | ┞                                      | L        | <del> </del> | ╀     | ╀          | -         | ├        | ⊢  | ┼-           |
| ┝        | 125      |             | -                                      | -        | ┼—           | -     | ╁          | $\vdash$  | ├        | ┝  | ⊢            |
| H        | 130      |             | +                                      | -        | ┼─           | ╁     | ╀          | ╁         | ⊢        | ├  | ╀╌           |
| -        | 13       |             | ╁╌                                     | -        | ╁            | ┼     | +          | ╁         | -        | $\vdash$   | ╁╴           |
| -        | 132      | -           | ╁                                      | ┢        | $\vdash$     | ╁     | 1          | $\dagger$ | -        | $\vdash$   | $\vdash$     |
|          | 13       |             | 1                                      |          | $\vdash$     | 1     | ✝          |           | †        | T  | ✝            |
| Г        | 13       |             | T                                      |          |              | Τ     | $T^-$      |           |          | Γ  |              |
| Г        | 13       | <u> </u>    | I                                      |          |              |       |            |           |          | $\Box$   | $\Box$       |
|          | 130      | 3           |  |          | L            | I     |            |           | L        | L  | L            |
|          | 13       |             |  |          | L            |       | _          | L         | Ļ.       | 1  | 1            |
|          | 138      |             | 1_                                     | L        | $\perp$      | 上     | 1_         | 1         | <u> </u> | ↓_   | ┡            |
| <u>_</u> | 139      | -           | 1                                      | L        | <u> </u>     | ↓-    |            | ↓-        | L        | ┞-   | ╀            |
| L        | 140      |             | $\perp$                                | L        | 1            | 1     | <b>Ļ</b> - | ـ         | <u> </u> | ╀-   | -            |
| L        | 14       |             | _                                      | _        | ╄-           | ↓_    | 1_         | ↓_        | ↓_       | ↓_   | <u> </u>     |
| <u>_</u> | 14       |             | $\vdash$                               | $\vdash$ | ↓_           | ╀-    | ╄-         | +-        | ├-       | $\vdash$   | +-           |
| <u></u>  | 14       |             | $\vdash$                               | ┞-       | +            | ┼-    | +-         | +-        | ┼        | ╁╌   | $\vdash$     |
| L        | 14       |             | ╀                                      | +-       | $\vdash$     | ┼-    | +-         | ╀         | $\vdash$ | ╀  | +-           |
| -        | 14       | <del></del> | +                                      | $\vdash$ | ╀            | ╀     | +-         | +-        | +        | +-   | +            |
| -        | 14       | _           | +                                      | +        | +            | +-    | +-         | +-        | $\vdash$ | +  | +-           |
| $\vdash$ | 14       | _           | ╁                                      | $\vdash$ | +-           | +     | +          | +-        | ╁╴       | +  | +            |
| $\vdash$ | 14       |             | +                                      | ⊢        | +            | +-    | +          | +         | +-       | +-   | +            |
| H        | 15       |             | +                                      | ╁╌       | +            | †     | ╁╴         | +-        | †        | T  |              |
| _        | 1:5      | <u>-1</u>   | ــــــــــــــــــــــــــــــــــــــ |          |              |       |            |           |          |  |              |

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